

DPM 5376-1

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Form Approved  
OMB No. 44-R1387

U.S. DEPARTMENT OF LABOR  
Occupational Safety and Health Administration

# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME <b>KOLENE CORPORATION</b>		EMERGENCY TELEPHONE NO. <b>(313) 273-9220</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>12890 Westwood Avenue, Detroit, Michigan 48223</b>		
CHEMICAL NAME AND SYNONYMS <b>Cleaning chemicals</b>		TRADE NAME AND SYNONYMS <b>KOLENE L/S</b>
CHEMICAL FAMILY <b>Caustic alkali</b>	FORMULA <b>KOH, NaNO<sub>3</sub>, KMnO<sub>4</sub></b>	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES

	%	TLV (Units)
Potassium hydroxide	45-65% Wt.	
Sodium nitrate	30-45% Wt.	
Potassium permanganate	5% Max.	

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	Over 1200	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	2
VAPOR PRESSURE (mm Hg.)	0	PERCENT, VOLATILE BY VOLUME (%)	0
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____ = 1)	N.A.
SOLUBILITY IN WATER	Complete		
APPEARANCE AND ODOR <b>Pinkish-gray granular odorless solid</b>			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	None	FLAMMABLE LIMITS	Lel	Uel
		N.A.	N.A.	N.A.
EXTINGUISHING MEDIA <b>Carbon dioxide and dry powders in vicinity of molten salts.</b>				
SPECIAL FIRE FIGHTING PROCEDURES <b>Avoid vaporizing liquids, water, and acid compounds in salt baths.</b>				
UNUSUAL FIRE AND EXPLOSION HAZARDS <b>Introduction of water, vaporizing liquids, magnesium or reducing agents into molten bath may cause serious explosions.</b>				

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE  $2 \text{ mg/m}^3$  of air

Effects of contact range from irritation to severe destruction of tissues.

EMERGENCY AND FIRST AID PROCEDURES

Flood affected surfaces with warm water for at least 15 minutes and contact a physician.

## SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

Overheating above 1000°F.

INCOMPATIBILITY (Materials to avoid)

water, acids, reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

None likely below 1000°F. Nitrogen oxides possible above this temperature.

HAZARDOUS  
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

N.A.

## SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep or shovel solid material into metal containers.

Avoid personal contact. Rinse or hose area well.

WASTE DISPOSAL METHOD

Dissolve in cold water and neutralize with acid.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Dust mask when handling solid salt.

VENTILATION

LOCAL EXHAUST

Forced exhaust over salt bath.

SPECIAL

MECHANICAL (General)

Required.

OTHER

PROTECTIVE GLOVES

Rubber for solid salt.

EYE PROTECTION

Face shield

OTHER PROTECTIVE EQUIPMENT

Heat-proof gloves and appropriate apparel for molten salt.

## SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in a dry area. Avoid contact of salt with acids.

Keep drums closed when not in use.

OTHER PRECAUTIONS

Avoid bodily contact.